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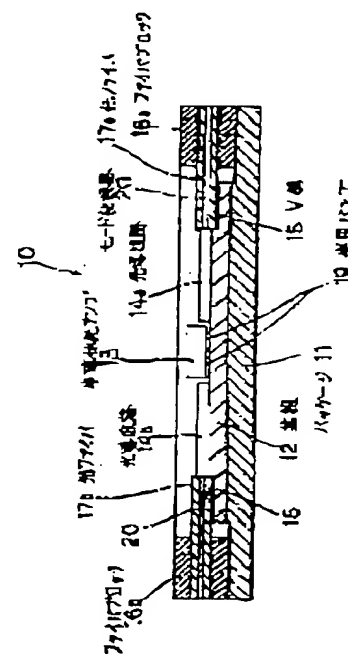
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## (54) OPTICAL MODULE AND MANUFACTURE OF OPTICAL MODULE

## (57)Abstract

**PROBLEM TO BE SOLVED:** To eliminate the need to adjust the optical axis of an optical fiber while having sufficient strength against attachment and detachment of an optical fiber connector.

**SOLUTION:** A semiconductor optical amplifier 13 is mounted on a substrate 12 mounted on a package 11. The package 11 is fitted with fiber blocks 16a and 16b where optical fibers 17a and 17b are held in parallel. The optical fibers 17a and 17b and semiconductor optical amplifier 14 are optically coupled through optical waveguides 14a and 14b formed on the substrate 12. On the substrate 12, V grooves 15 supporting the projection positions of the optical fibers 17a and 17b from the fiber blocks 16a and 16b are formed. The optical fibers 17a and 17b are positioned by fitting the fiber blocks 16a and 16b to the package 11 so that the tips of the optical fibers 17a and 17b are made to abut against the tips of the V grooves 15.



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